AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1-19. (Cancelled)

20. (Withdrawn) An electrode active material for an electrochemical device, comprising a compound having a structure represented by the general formula (1b):

$$R^2$$
 R^1 R^5 R^6 R^5

where X is a nitrogen atom; each of R^1 to R^4 is independently a linear or cyclic aliphatic group, a hydrogen atom, a hydroxyl group, a cyano group, an amino group, a nitro group or a nitroso group; each of R^5 and R^6 is independently a linear or cyclic aliphatic group, or a hydrogen atom; said aliphatic group includes at least one selected from the group consisting of an oxygen atom, a nitrogen atom, a sulfur atom, a silicon atom, a phosphorus atom, a boron atom, and a halogen atom.

21. (Cancelled)

22. (Previously presented) The secondary battery in accordance with claim 32, wherein said compound is a polymer compound having more than one structure represented by the general formula (1a).

- 23. (Withdrawn) The electrode active material in accordance with claim 20, wherein said compound is a polymer compound having more than one structure represented by the general formula (1b).
- 24. (Withdrawn) The secondary battery in accordance with claim 34, wherein said compound is a polymer compound having more than one structure represented by the general formula (2).
- 25. (Previously presented) The secondary battery in accordance with claim 22, wherein said polymer compound has a polyacetylene chain or a polymethacrylate chain as a main chain.
- 26. (Withdrawn) The electrochemical device in accordance with claim 23, wherein said polymer compound has a polyacetylene chain or a polymethacrylate chain as a main chain.
- 27. (Withdrawn) The secondary battery in accordance with claim 24, wherein said polymer compound has a polyacetylene chain or a polymethacrylate chain as a main chain.
- 28. (Previously presented) The secondary battery in accordance with claim 32, wherein the number of carbon atoms in the aliphatic group is in the range of 1 to 6.
- 29. (Withdrawn) The electrochemical device in accordance with claim 20, wherein the number of carbon atoms in the aliphatic group is in the range of 1 to 6.
- 30. (Withdrawn) The secondary battery in accordance with claim 34, wherein the number of carbon atoms in the aliphatic group is in the range of 1 to 6.

31. (Withdrawn) An electrode active material for an electrochemical device, comprising a compound having a structure represented by the general formula (2):

where each of R^1 to R^4 is hydrogen atom; one of R^7 and R^8 is a hydrogen atom and the other is a methyl group; and one of R^9 and R^{10} is a hydrogen atom and the other is a methyl group.

32. (Currently amended) A secondary battery, comprising a positive electrode, a negative electrode and an electrolyte,

wherein at least one of said positive electrode and said negative electrode includes an electrode active material comprising a compound having a structure represented by the general formula (1a):

$$R^2$$
 X
 X
 X
 R^6
 X
 X
 X
 X
 X
 X

where X is a sulfur atom or an oxygen atom; each of R^1 to R^4 is independently a linear or cyclic aliphatic group, a hydrogen atom, a hydroxyl group, a cyano group, an

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amino group, a nitro group or a nitroso group; each of R⁵ and R⁶ is independently a linear or cyclic aliphatic group, or a hydrogen atom; said aliphatic group includes at least one selected from the group consisting of an oxygen atom, a nitrogen atom, a sulfur atom, a silicon atom, a phosphorus atom, a boron atom, and a halogen atom.

33. (Withdrawn) An electrochemical device, comprising a positive electrode, a negative electrode and an electrolyte,

wherein at least one of said positive electrode and said negative electrode includes an electrode active material in accordance with claim 20.

34. (Withdrawn) A secondary battery, comprising a positive electrode, a negative electrode and an electrolyte,

wherein at least one of said positive electrode and said negative electrode includes an electrode active material comprising a compound having a structure represented by the general formula (2):

where each of R^1 to R^4 and R^7 to R^{10} is independently a linear or cyclic aliphatic group, a hydrogen atom, a hydroxyl group, a cyano group, an amino group, a nitro group or a nitroso group; said aliphatic group includes at least one selected from the group consisting of an oxygen atom, a nitrogen atom, a sulfur atom, a silicon atom, a phosphorus atom, a boron atom and a halogen atom.

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- 35. (Previously presented) The secondary battery in accordance with claim 32, wherein said electrolyte comprises a solvent, and an anion and a cation that diffuse in said solvent, and said compound is capable of forming a coordinate bond with said cation through an oxidation-reduction reaction.
- 36. (Withdrawn) The electrochemical device in accordance with claim 33, wherein said electrolyte comprises a solvent, and an anion and a cation that diffuse in said solvent, and said compound is capable of forming a coordinate bond with said cation through an oxidation-reduction reaction.
- 37. (Withdrawn) The secondary battery in accordance with claim 34, wherein said electrolyte comprises a solvent, and an anion and a cation that diffuse in said solvent, and said compound is capable of forming a coordinate bond with said cation through an oxidation-reduction reaction.
- 38. (Previously presented) The secondary battery in accordance with claim 35, wherein said cation is a lithium ion.
- 39. (Withdrawn) The electrochemical device in accordance with claim 36, wherein said cation is a lithium ion.
- 40. (Withdrawn) The secondary battery in accordance with claim 37, wherein said cation is a lithium ion.
- 41. (Previously presented) The secondary battery in accordance with claim 32, wherein said positive electrode includes said compound as a positive electrode active material, and said negative electrode includes a carbon material as a negative electrode active material.

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- 42. (Withdrawn) The electrochemical device in accordance with claim 33, wherein said positive electrode includes said compound as a positive electrode active material, and said negative electrode includes a carbon material as a negative electrode active material.
- 43. (Withdrawn) The secondary battery in accordance with claim 34, wherein said positive electrode includes said compound as a positive electrode active material, and said negative electrode includes a carbon material as a negative electrode active material.
- 44. (Previously presented) The secondary battery in accordance with claim 32, wherein said positive electrode includes said compound as a positive electrode active material, and said negative electrode includes, as a negative electrode active material, at least one selected from the group consisting of a lithium metal, a lithium-containing composite nitride and a lithium-containing composite titanium oxide.
- 45. (Withdrawn) The electrochemical device in accordance with claim 33, wherein said positive electrode includes said compound as a positive electrode active material, and said negative electrode includes, as a negative electrode active material, at least one selected from the group consisting of a lithium metal, a lithium-containing composite nitride and a lithium-containing composite titanium oxide.
- 46. (Withdrawn) The secondary battery in accordance with claim 34, wherein said positive electrode includes said compound as a positive electrode active material, and said negative electrode includes, as a negative electrode active material, at least one selected from the group consisting of a lithium metal, a lithium-containing composite nitride and a lithium-containing composite titanium oxide.
- 47. (Previously presented) The secondary battery in accordance with claim 32, wherein said negative electrode includes said compound as a negative electrode active material, and said positive electrode includes a metal oxide material as a positive electrode material.

- 48. (Withdrawn) The electrochemical device in accordance with claim 33, wherein said negative electrode includes said compound as a negative electrode active material, and said positive electrode includes a metal oxide material as a positive electrode material.
- 49. (Withdrawn) The secondary battery in accordance with claim 34, wherein said negative electrode includes said compound as a negative electrode active material, and said positive electrode includes a metal oxide material as a positive electrode material.
- 50. (Previously presented) The secondary battery in accordance with claim 32, wherein, when said compound is used as an electrode active material, a conductive material is mixed into the electrode active material.
- 51. (Withdrawn) The electrochemical device in accordance with claim 33, wherein, when said compound is used as an electrode active material, a conductive material is mixed into the electrode active material.
- 52. (Withdrawn) The secondary battery in accordance with claim 34, wherein, when said compound is used as an electrode active material, a conductive material is mixed into the electrode active material.
- 53. (Previously presented) The secondary battery in accordance with claim 32, wherein, when said positive electrode includes said compound as a positive electrode active material, one of the following is used as the negative electrode material of said negative electrode: a carbon material, a lithium metal, a lithium-containing composite nitride, a lithium-containing composite titanium oxide, a composite material of tin and carbon, and a composite material of tin and another metal.
- 54. (Withdrawn) The electrochemical device in accordance with claim 33, wherein, when said positive electrode includes said compound as a positive electrode active material, one of the following is used as the negative electrode material of said negative electrode: a carbon material, a lithium metal, a lithium-containing composite nitride, a

lithium-containing composite titanium oxide, a composite material of tin and carbon, and a composite material of tin and another metal.

55. (Withdrawn) The secondary battery in accordance with claim 34, wherein, when said positive electrode includes said compound as a positive electrode active material, one of the following is used as the negative electrode material of said negative electrode: a carbon material, a lithium metal, a lithium-containing composite nitride, a lithium-containing composite titanium oxide, a composite material of tin and carbon, and a composite material of tin and another metal.

56. (Cancelled)

57. (Withdrawn) The electrochemical device in accordance with claim 33, wherein said electrochemical device comprises one of a secondary battery, a primary battery, an electrolytic capacitor, a sensor and an electrochromic device.

58. (Cancelled)